



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

### PIEDMONT REGIONAL OFFICE

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September 7, 2007

L. Preston Bryant, Jr.  
Secretary of Natural Resources

David K. Paylor  
Director

Gerard Seeley, Jr.  
Regional Director

King William County  
Kennington Subdivision  
Pump Station  
Operations and Maintenance Manual  
23100

Frank Pleva, County Administrator  
King William County  
P.O. Box 215  
King William, VA 23086

Dear Mr. Pleva:

This Office has received an Operation and Maintenance Manual, as prepared by Timmons Group, for the referenced facility. The manual entitled "Operation and Maintenance Manual for the Kennington Wastewater Pump Station, King William County, Virginia" is engineer stamp dated August 28, 2007.

The manual covers the detailed operation and maintenance instructions for the 500 gallon per minute, duplex, submersible station. The manual also contains relevant discussions of such areas as personnel, record keeping, and safety.

The County of King William owns the facility.

The evaluation of this manual has been confined to technical requirements and design criteria, as stipulated in the Commonwealth of Virginia *Sewage Collection and Treatment Regulations*.

In accordance with Virginia Water Control Law, *Code of Virginia*, 1950 as amended in Title 62.1, Section 62.1-44.19, this letter report is to advise that the previously mentioned manual is technically adequate and is approved by this office.

King William County  
Kennington Subdivision  
Pump Station  
Operations and Maintenance Manual  
23100

One copy of the previously described manual with Virginia Department of  
Environmental Quality approval stickers is enclosed.

Sincerely,



Raymond R. Barrows, Jr., P.E..  
Area Engineer  
Office of Wastewater Engineering

J. R. Bell Jr., DEQ-PRO  
James C. Pyne, Ph.D., P.E., DEE  
Thomas Irungu, M.D., M.P.H., Director, Three Rivers Health District  
Jim Duke, Rodgers – Chenault, Inc.

**Sewage Pump Station O&M Manual  
Review Checklist**

PROJECT NAME: KENNINGTON City/County KING WILLIAM

Submitted by: TIMMONS Group Receiving STP: ARSD KING WILLIAM

✓ Title Page

✓ Table of Contents

1-11 Introduction (including location map, service area map, owner and facility name, address and phone number, and purpose of manual)

4 Description of Facility (including pump rating and average daily flow)

APP Shop Drawings & Manufacturers Literature

✓ Pumps - incl. Model #, pump curves  
✓ Motors  
✓ Dialers & Alarms  
✓ Diesel Generators  
✓ Hoists/Lift-out Rails, etc.

✓ Spare parts list  
✓ Controls  
✓ Special Valves  
✓ Odor Control Systems  
✓ Spare Pump

7 Recommendation for planning and scheduling of routine maintenance tasks to be performed on daily, weekly, monthly, or annual basis, as needed.

6 Troubleshooting

NA Lubricants (N/A for submersibles)

8 List of local equipment suppliers and outside service/repair contracts

3 Emergency (in the event of power or pump station failure) and start-up procedures

7-11 Emergency phone numbers

2 Description of safety hazards involved with the operation of the facility which includes potential dangers from electricity, mechanical equipment, poisonous gases, explosions/fires, bacterial infections, oxygen deficiency/noxious gases in enclosed spaces.

2 Confined space entry program

NA Screens, comminutors, etc

3 Reporting procedures for spills and overflows

8 Maintenance agreement

9 Space for the certificate to operate

Reviewer: RJB

Date: 9/7/07



# TRANSMITTAL

TO: Reed Barrows, PE Date: 8/29/2007 Job #: 21776  
Department of Environmental Quality Project: Kennington WWPS  
4949-A Cox Road Reference: \_\_\_\_\_  
Glen Allen, VA 23060 Copies Sent To: \_\_\_\_\_

☒ ENCLOSED PLEASE FIND:  
☐ WE ARE SENDING UNDER SEPARATE COVER:

COPIES	DATE	NUMBER	DESCRIPTION
3	8/29/07		Kennington Wastewater Pumping Station O&M manual

RECEIVED

AUG 30 2007

PRO

THESE ITEMS ARE TRANSMITTED:  
*If enclosures are not as noted, please notify us at once.*

COMMENTS:

Mr. Barrows,

Please review the enclosed O&M manual for the Kennington wastewater pumping station in King William County. Should you have any questions or need anything, please contact me directly at (804) 200-6422 or [chris.petree@timmons.com](mailto:chris.petree@timmons.com). Thank you!

SIGNED:

Christopher R. Petree, EIT  
Project Engineer, Timmons Group